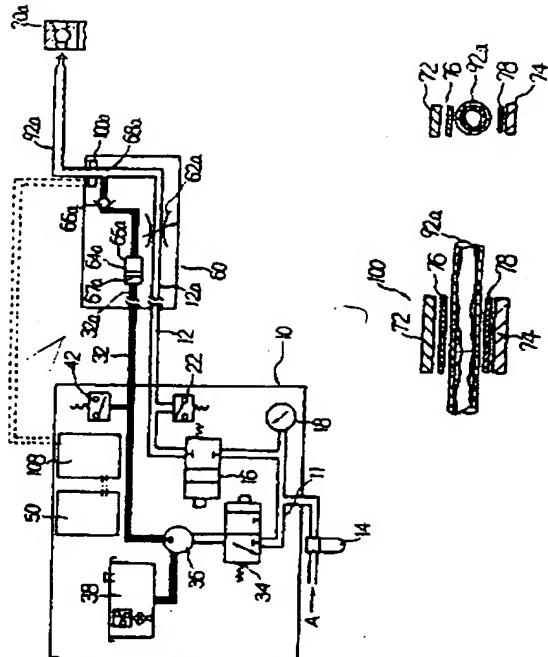


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 APPLICANT : NIPPON SEIKO KK;
 INVENTOR : GOSHIMA FUSASUKE;
 INT.CL. : F16N 29/04 B23Q 11/12
 TITLE : LUBRICATING OIL SUPPLY DEVICE
 AND OIL QUANTITY MEASUREMENT
 DEVICE THEREFOR



ABSTRACT : PURPOSE: To prevent the seizure of a bearing by receiving a beam from a light emitting element with a light receiving element, judging the amount of received light changing with the amount of oil passed using a judgement circuit, measuring an increase in a normal oil amount and controlling the operation of a lubricated object via the comparison of the measurement result with the predetermined reference value.

CONSTITUTION: Lubricating oil finely and constantly fed from a constant supply unit 6 enters from a connection part 68a to a compressed air supply line 12a, and thereafter is supplied to a bearing 70a on an air flow along the inner wall surface of a compressed air supply line 92a by the help of compressed air. An optical passage sensor 100a is provided at the downstream side near the connection part 68a of the compressed air supply line 92a. The sensor 100a includes infrared emitting and receiving elements 72 and 74 opposed to each other about the compressed air supply line 92a, a lens 76 near the light emitting element 72 and an infrared filter 78 near the light receiving element 74. The excess or shortage of lubricating oil is measured using a difference in the passage of infrared changing due to the amount of the oil running in the compressed air supply line 92a having the sensor 100a.

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